World War I — Late 1917 To 1918 Era American Car & Foundry Company — Depew New York USA Production Of 155 Millimeter Combat Steel Shells Mark VII For The United States Army Real Picture Postcards of Production Operations

It appears these real picture postcards

were used in the production of the 1919 book:

The American Car and Foundry Company In Khaki.

This book is readily available to read free at www.HathiTrust.org.

Not all postcard images were used in the book, and much of the information

written onto the backs of the postcards does not seem to appear in the book either.

Thus it was felt important to post these postcard images and information here on Archive.



155 M COM. STEEL SHELL, MARK VIII, A.C.& F. CO. DEPEW, N.Y.

POST CARD

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1- BILLET BEFORE PIERCING, 5 IN. SQ. X 18 LONG.

2- BILLET AFTER PIERCING, 7 IN. DIA, X 25 LONG.

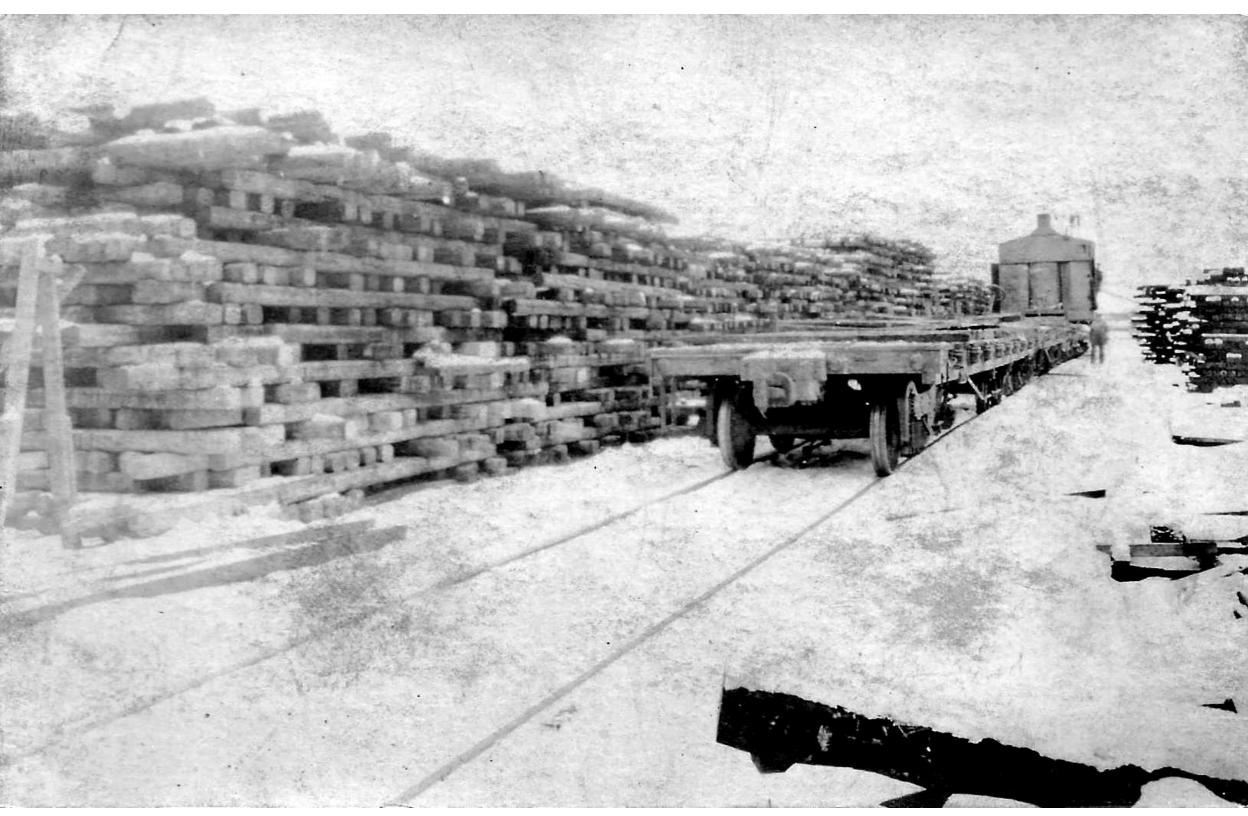
3- SHELL AFTER ROUGH TURN & CUT OFF OPEN END OPERATION.

4- SHELL AFTER CLOSING IN THE NOSE.

5- SHELL AFTER NOSE TAPPING, FRCE BASE, & FINISH TURN OPERATIONS.

6. SHELL AFTER CUTTING GROOVES FOR COPPER BANDS.

7. SHELL AFTER COPPER BAND HAS BEEN RPPLYED. & SHELL AFTER COPPER BAND HAS BEEN TURNED.



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VIEW OF STEEL STORAGE IN YARDS. STEEL WAS SUPPLIED.
BY THE GOVERNMENT IN BARS 42 IN. SQ. AND OF VARYING
LENGTHS, AND WAS HANDLED BY THE STEAM CRANE SHOWN.



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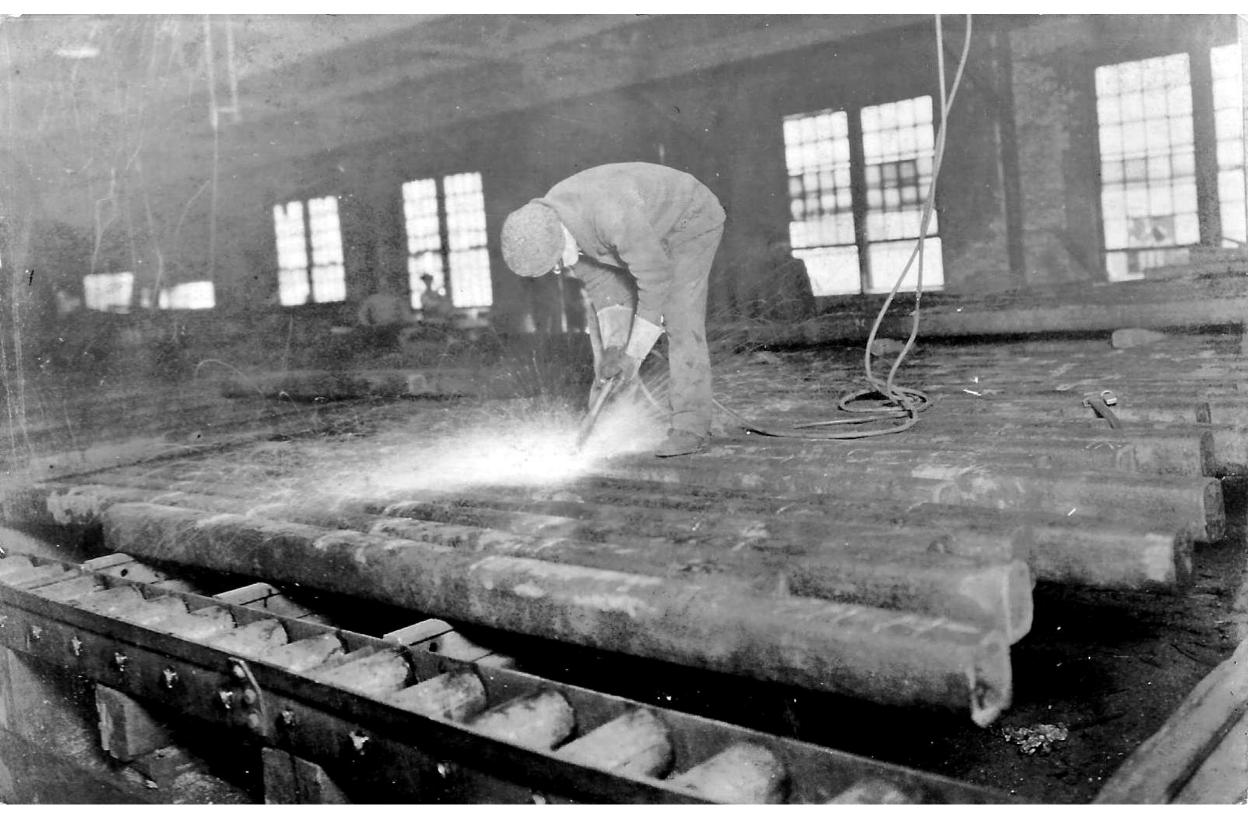
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AFTER LEAVING THE YARD THE BARS WERE TAKEN TO THE NICKING THBLES, WHERE A NICK ABOUT 4 IN DEEP WAS CUT ON ONE SIDE OF THE BAR WITH AN THE NICKS WERE MADE ABOUT 18 INS. APART OVER THE WHOLE LENGTH OF THE BAR,



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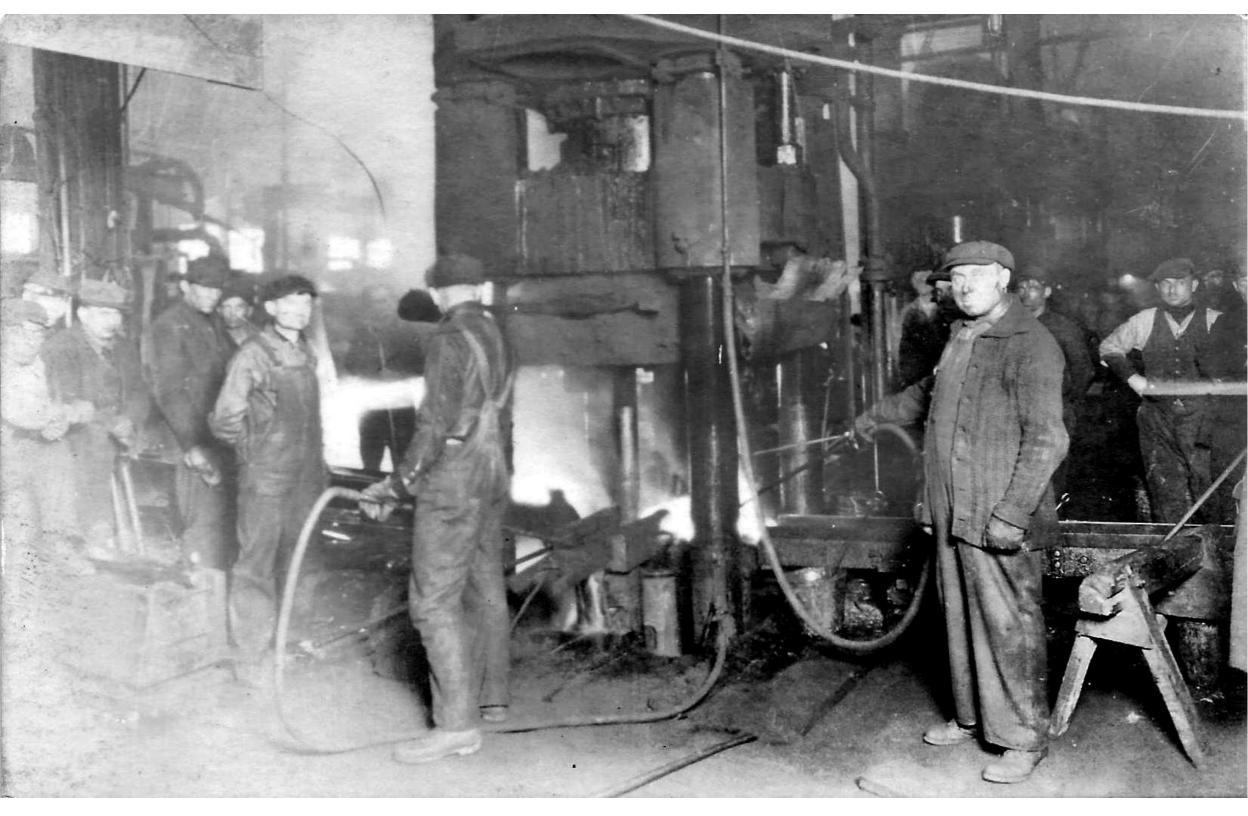
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NEXT THE BARS GO TO THE BULL DOZER, WHERE THEY ARE BROKEN INTO BILLETS, AS SHOWN IN THIS PICTURE. ONE BULL DOZER WAS ABLE TO BREAK ENOUGH BILLETS FOR THE WHOLE DAILY PRODUCTION, WHICH WAS 8,000 SHELLS. NOTE THAT THE BREAK IS SMOOTHE AND SQUARE.



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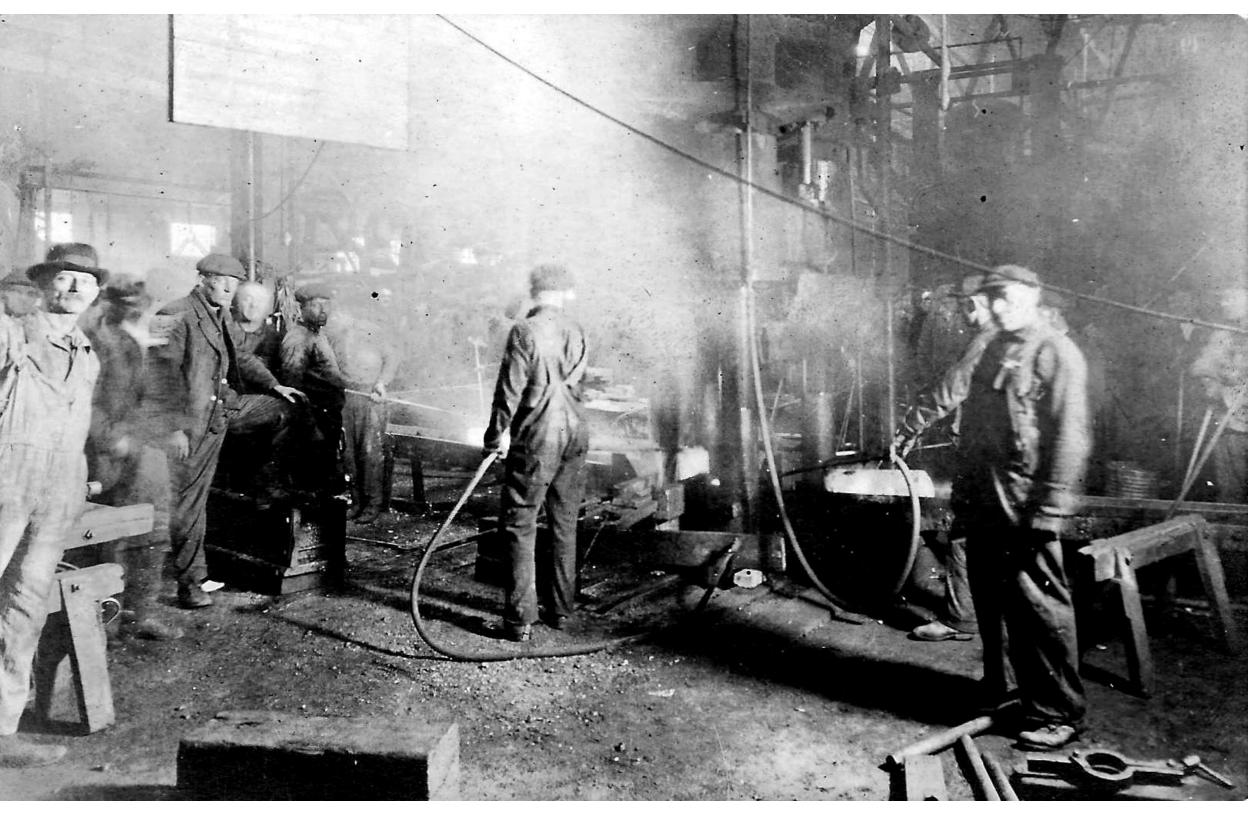
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THE BILLETS THEN GO TO THE FURNACES AND ARE HEATED TO A WHITE HEAT. FROM THE FURNACE THEY ARETAKEN TO THE FORGING PRESS WHERE THE HOLE IN THE CENTER IS PIERCED IN ONE OPERATION. THIS PICTURE SHOWS THE FORGING PRESS WHICH EXERTS A PRESSURE OF TOO TONS. IT IS OF THE HYDRAULIC TYPE USING A 500 LB. PER SQ. IN. WATER PRESSURE



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AFTER FORGING THE SHELLS ARE ALLOWED TO COOL IN THE YARD BEFORE GOING TO THE MACHINE SHOP, IN THIS PICTURE THE FORGE SHOP IS SHOWN ON THE RIGHT AND THE MACHINE ON THE LEFT. THE WHITE BUILDING IN THE BACK GROUND IN ONE OF THE ANNEALING ROOMS OF WHICH THERE WERE TWO ONE ON EACH SIDE OF THE MACHINE SHOP,



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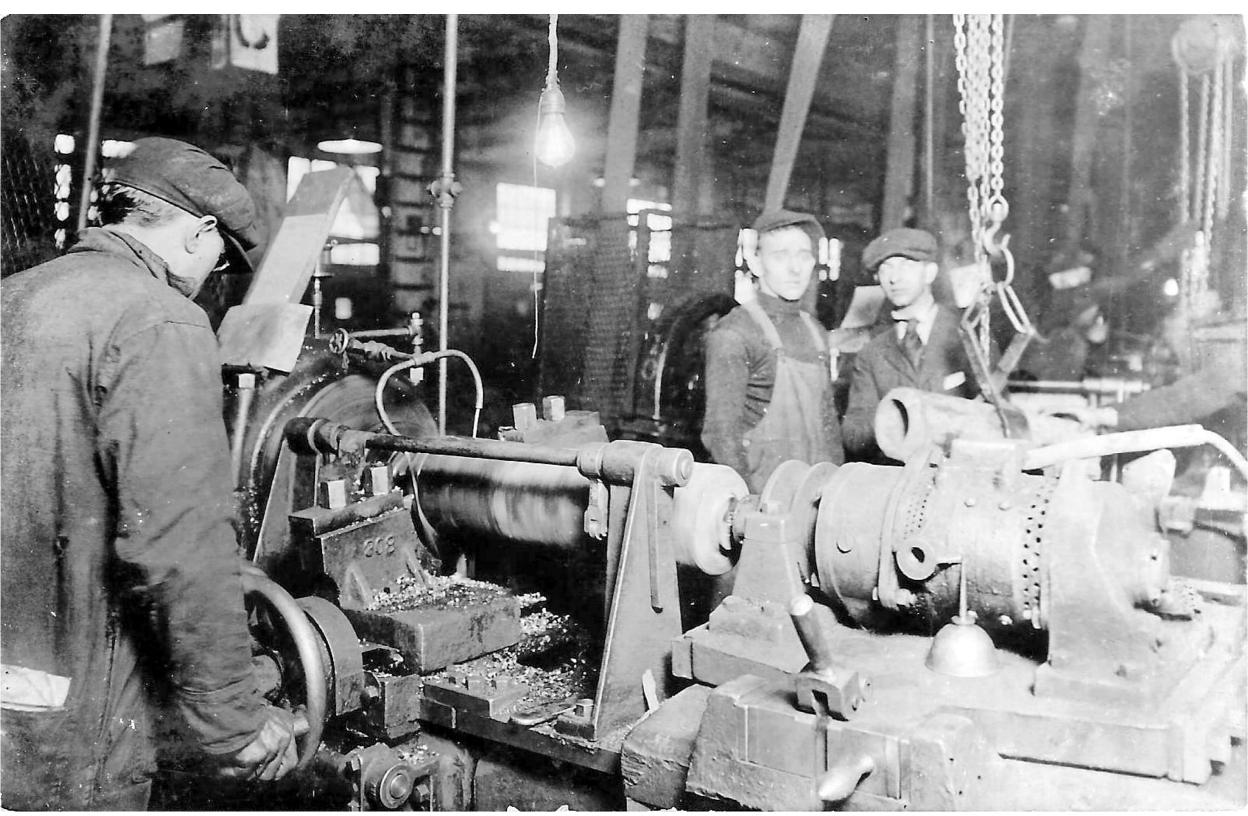
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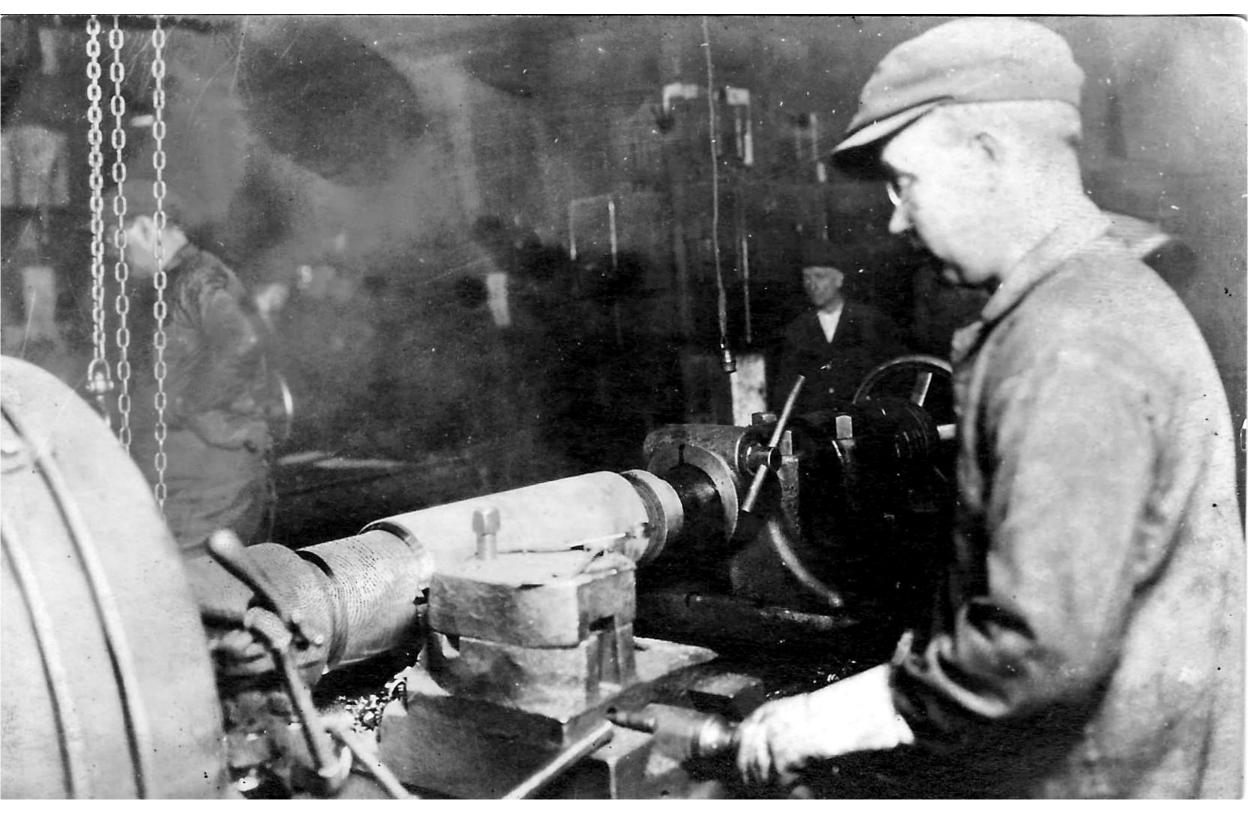
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THIS PICTURE SHOWS THE FIRST MACHINING OPERATION
THE FORGING IS TESTED FOR CONCENTRICITY AND LENGTH, THE
OPEN END CUT OFF AND CENTER HOLE DRILLED. THE FORGING
IS HELD ON AN AIR OPERATED EXPANDING MANDREL AND
TWO CUT OFF TOOLS OF HIGH SPEED STEEL ARE USED. THE
CENTER DRILL IS DRIVEN BY SEPERATE MOTOR WHICH CAN
BE SWUNG OUT OF THE WAY SO THAT FORGING CAN BE REMOVED
FROM MANDREL.



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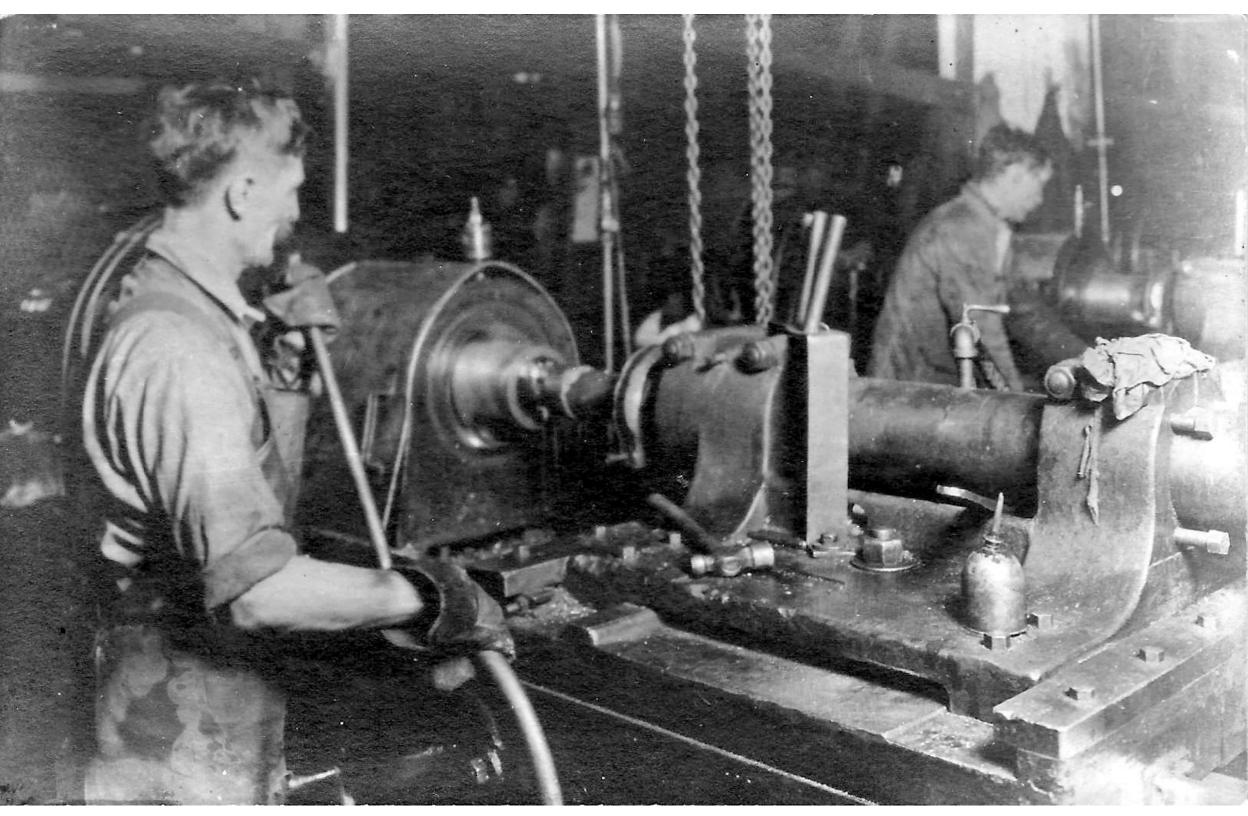
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THE SHELL THEN GOES TO THE ROUGH TURN OPERATION WHERE THE OUTSIDE DIAMETER IS TURNED OVER ITS ENTIRE LENGTH TO WITHIN ONE EIGHTH INCH OF FINISHED SIZE. THE CUTTING TOOL IS OF STELLITE WELDED TO A MACHINE STEEL SHANK, THE CUT OFTEN BEING THREE QUARTERS OF AN INCH DEEP AND USING ONE EIGTH FEED. THE SHELL IS HELD AN DRIVEN BY AN AIR OPERATED EXPANDIND MANDREL



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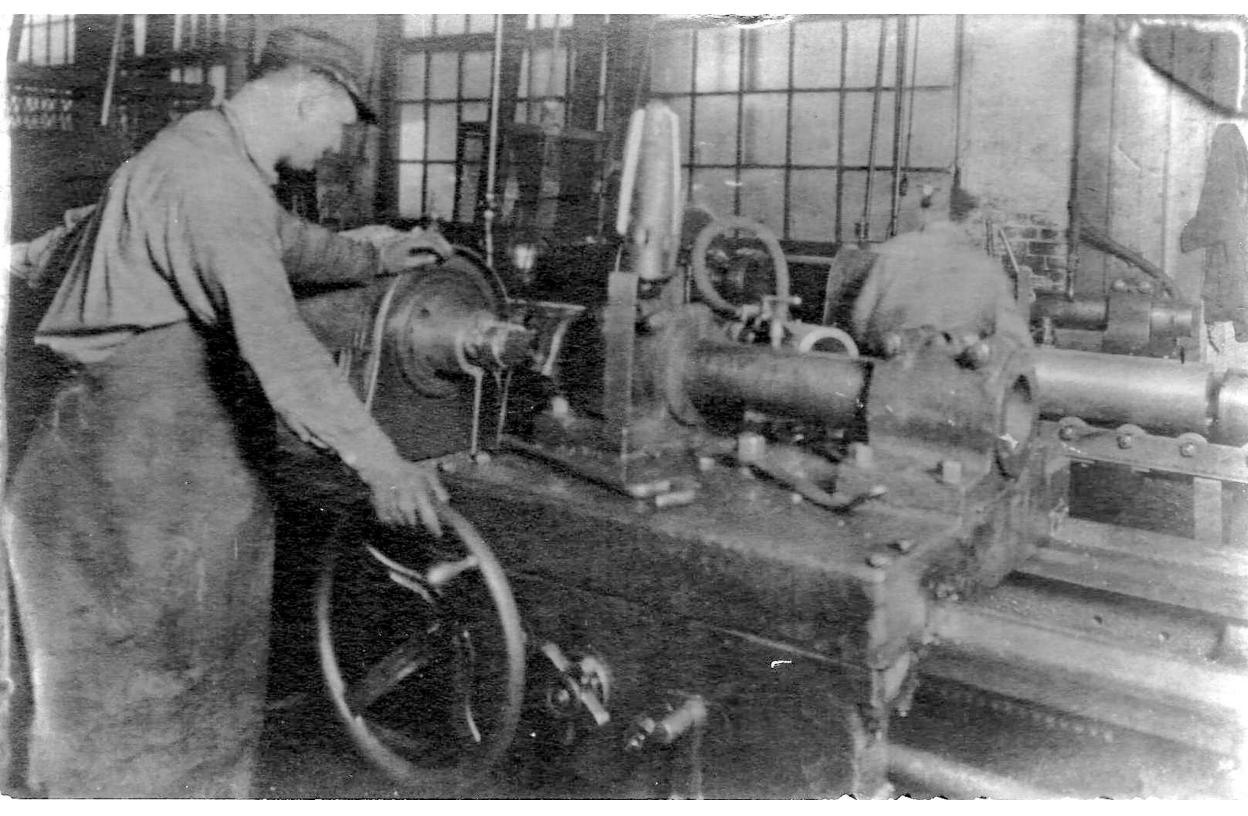
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NEXT IS THE BURING OPERATION, HERE THE SHELL IS HELD IN A AIR OPERATED COLLET CHUCK, THE BURING IS DORE WITH AROUGH AND FINISH CUTTER HEAD WITH INSERTED BLADES, OF HIGH SPEED STEEL.



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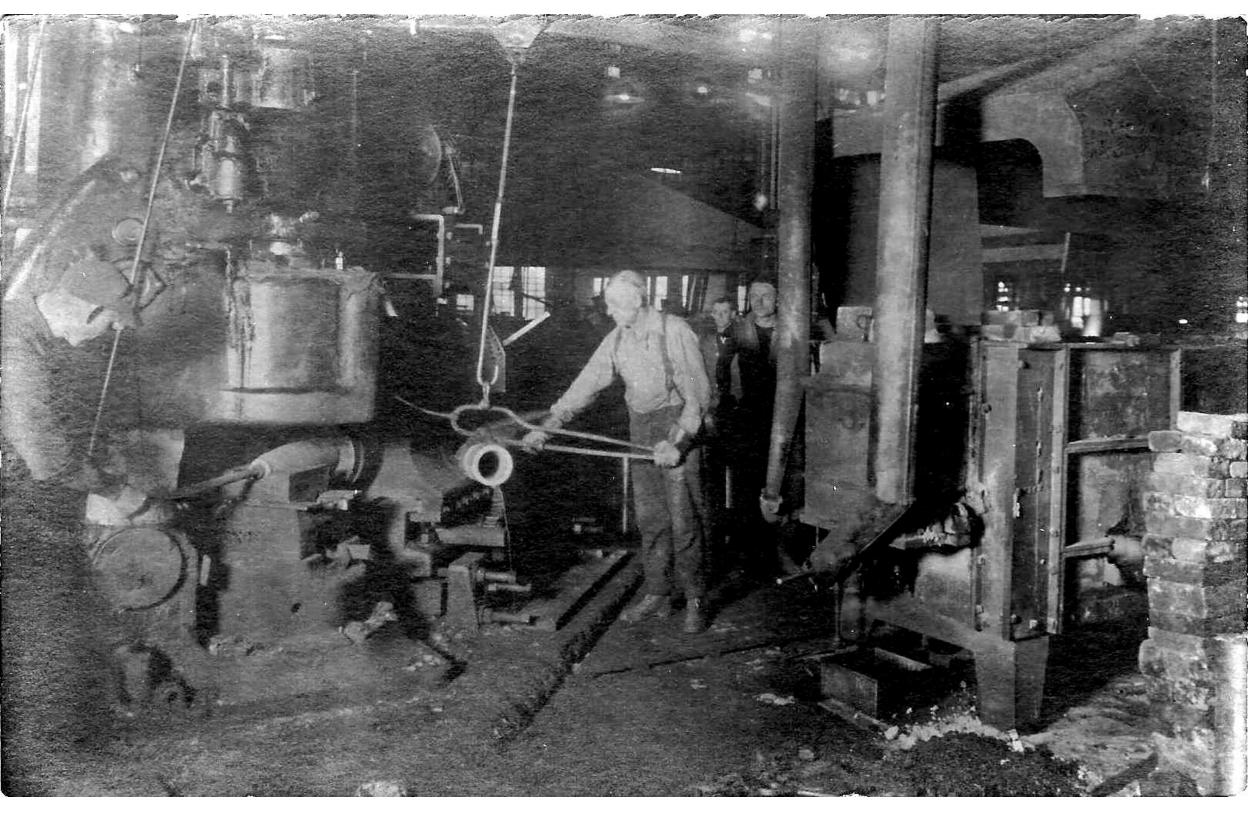
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AFTER BEING BORED THE OPENEND IS HEATED TO A WHITE HEAT AN IS THEN HAMMERED IN AS SHOWN IN THIS PICTURE,



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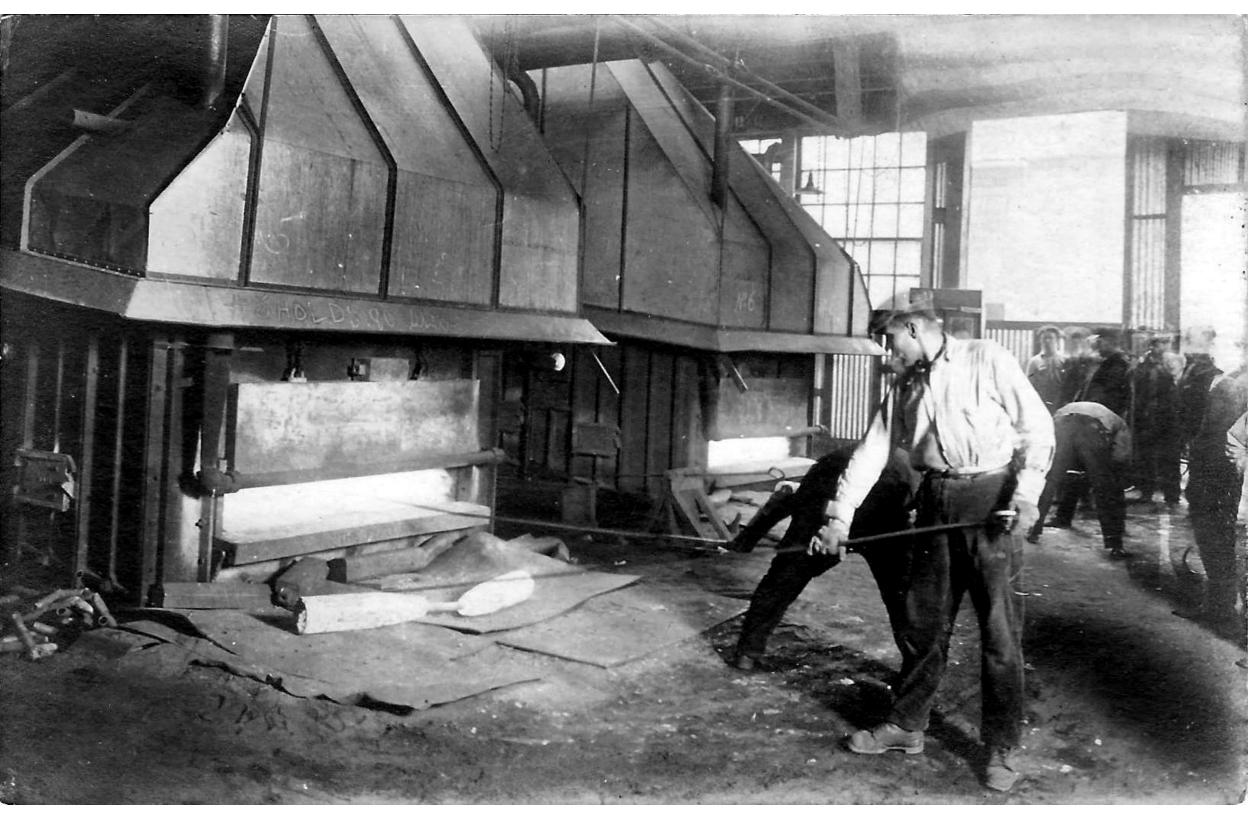
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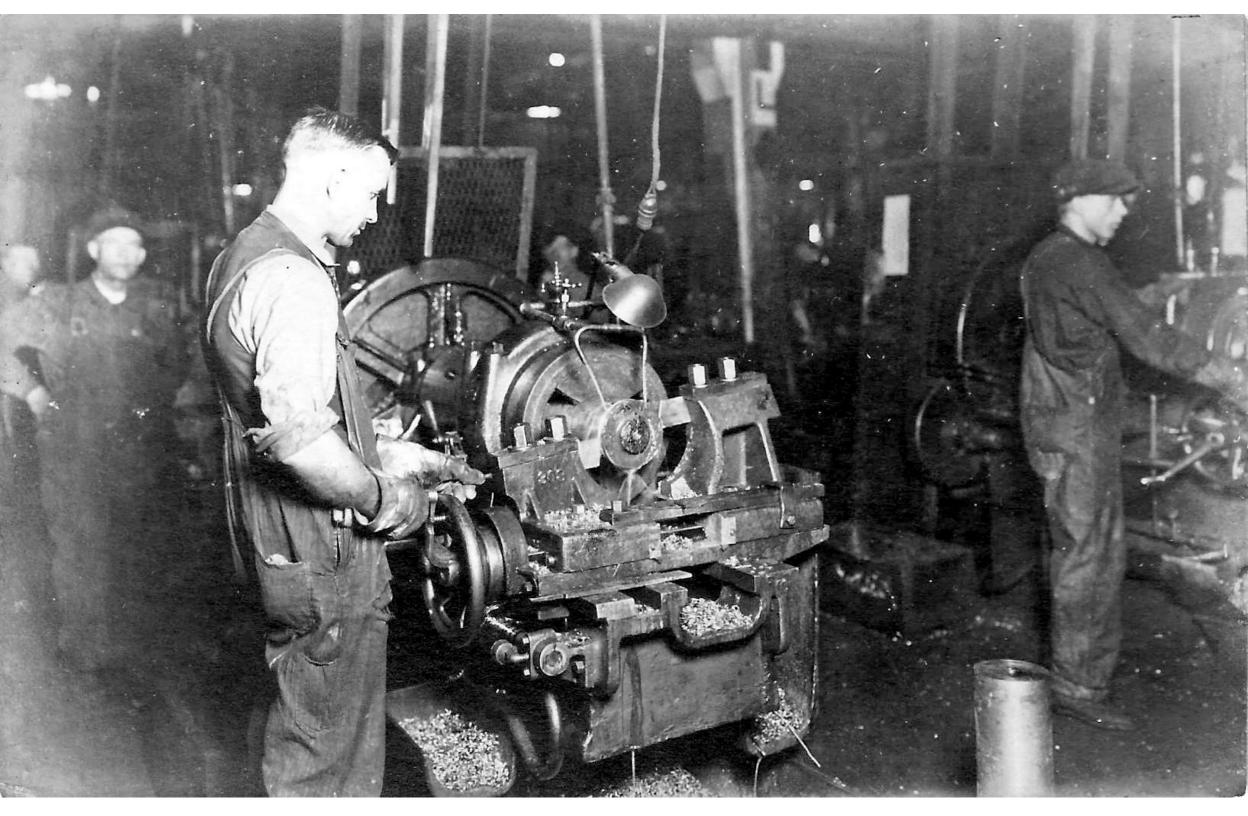
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IN THIS PICTURE ARE SHOWN THE HEATTREATING OVENS WHERE ALL SHELLS ARE TREATED TO GIVE AN EVEN HARDNESS & STRENGTH.



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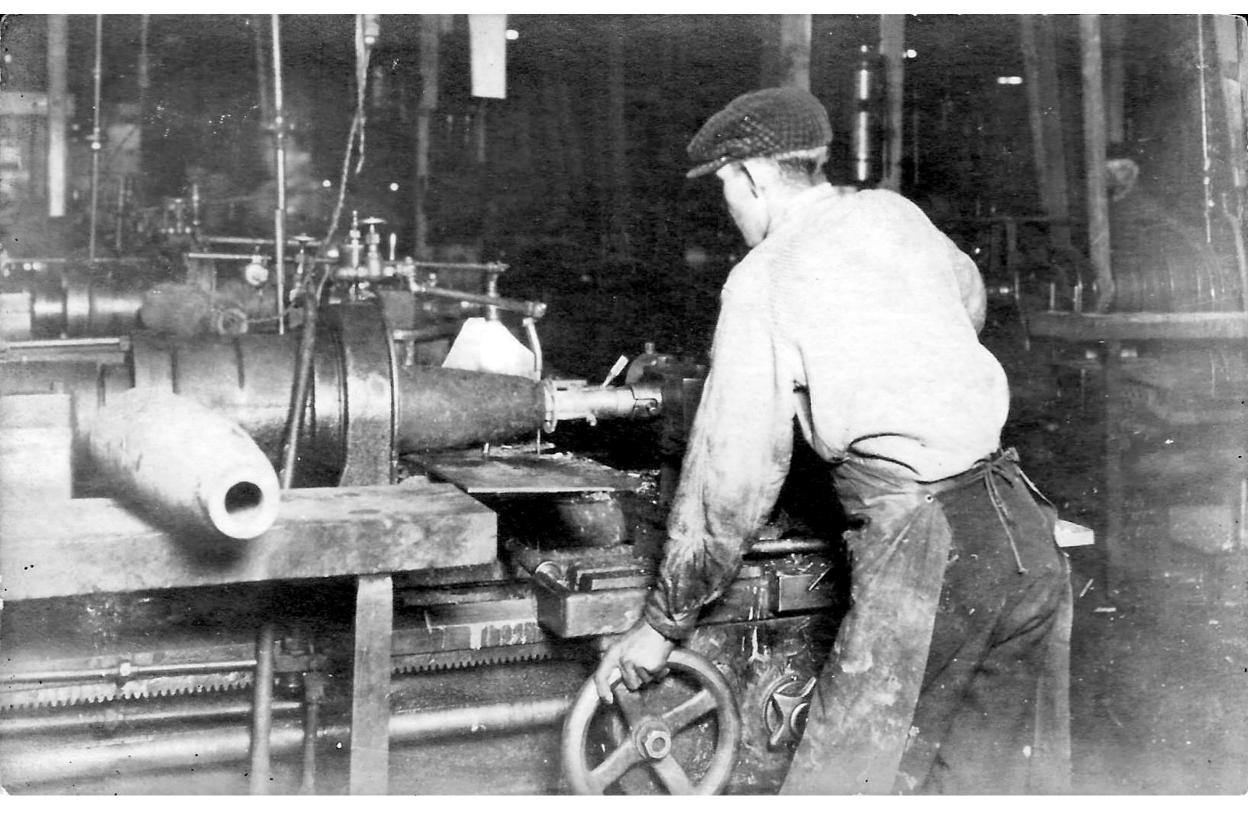
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ON THIS MACHINE THE BACE END IN BEING CUT OFF WHICH REMOVES THE CENTER HOLE USED IN ROUGH TURNING AND LEAVES THE SHELL OF APPROX. THE RIGHT LENGTH.



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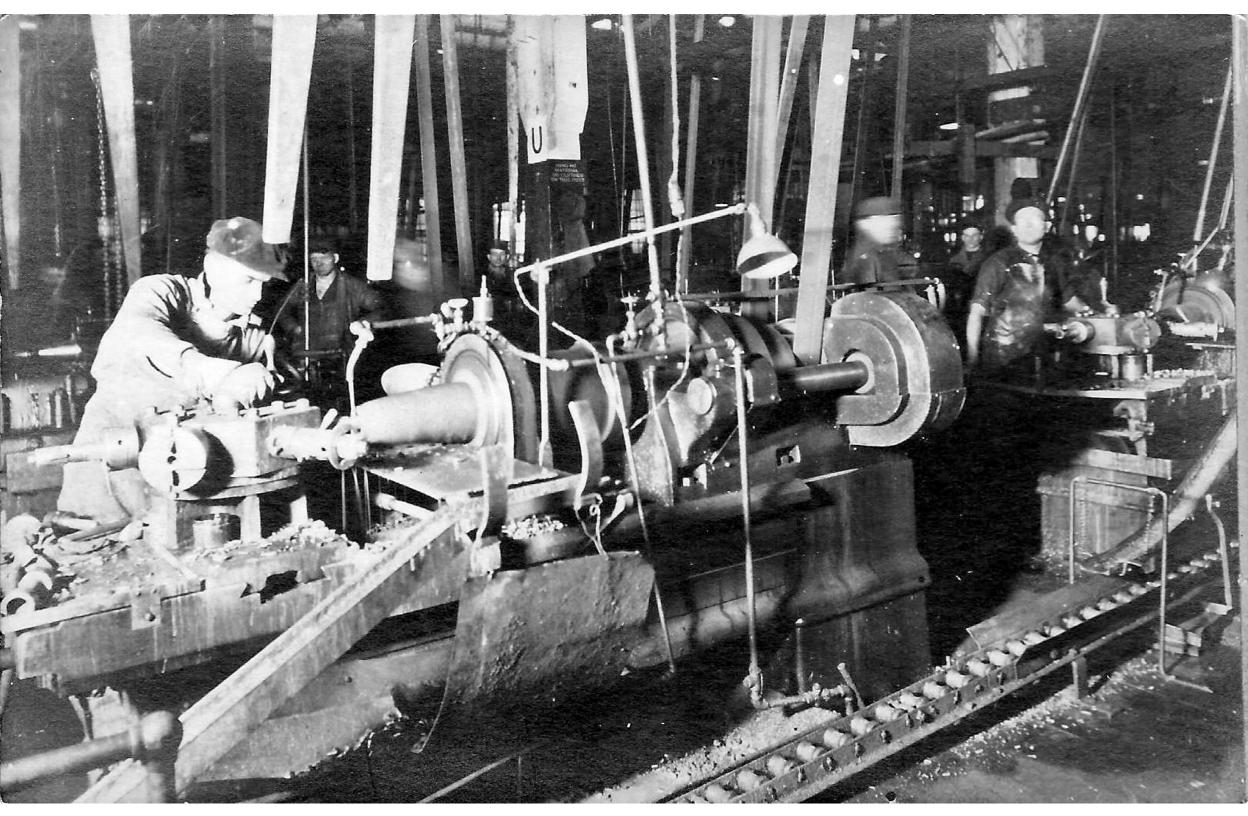
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NEXT IS SHOWN THE NOSE TAPPING OPERATION, A STD. RIN. PIPE THREAD IN CUT IN THE NOSE OF THE SHELL, TO RECEIVE THE NOSE PLUG OF FUZE. THIS WAS DONE WITH A FOUR BLADE QUICK ACTING TAP.



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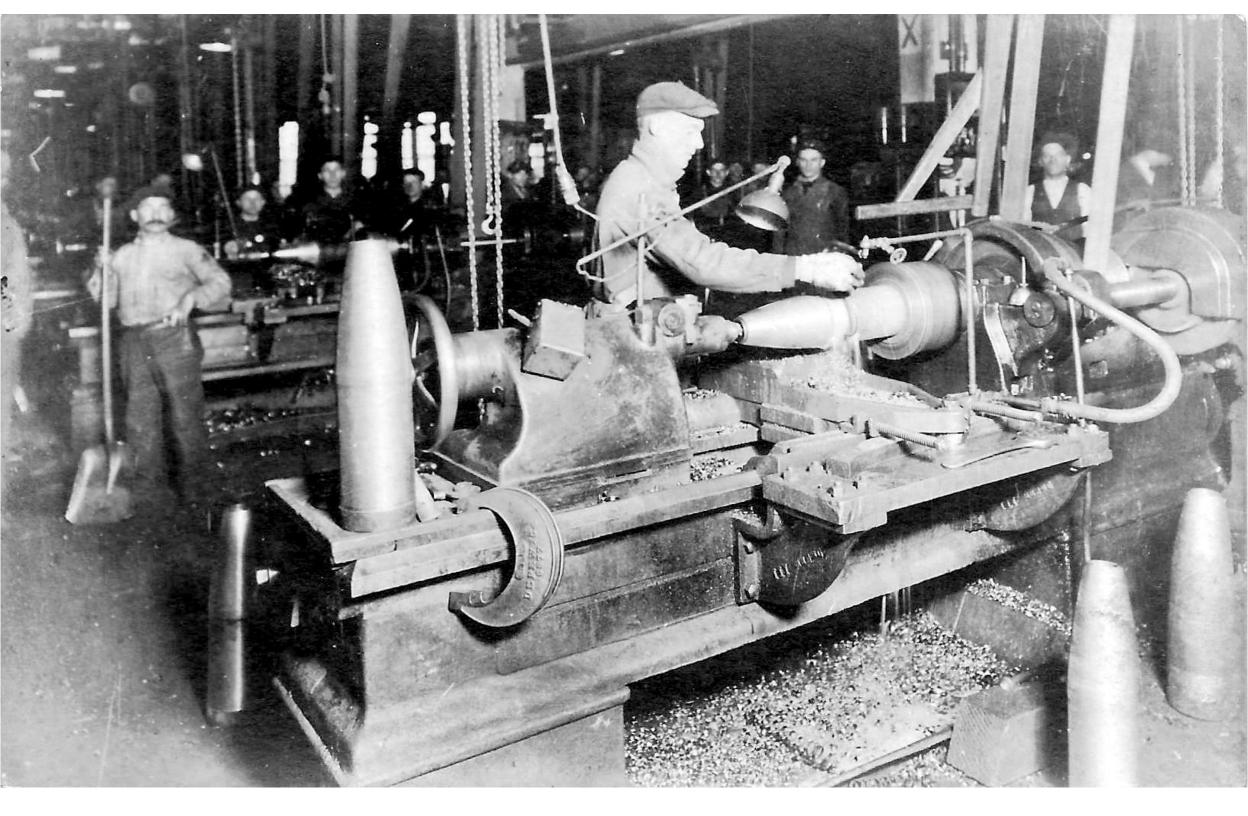
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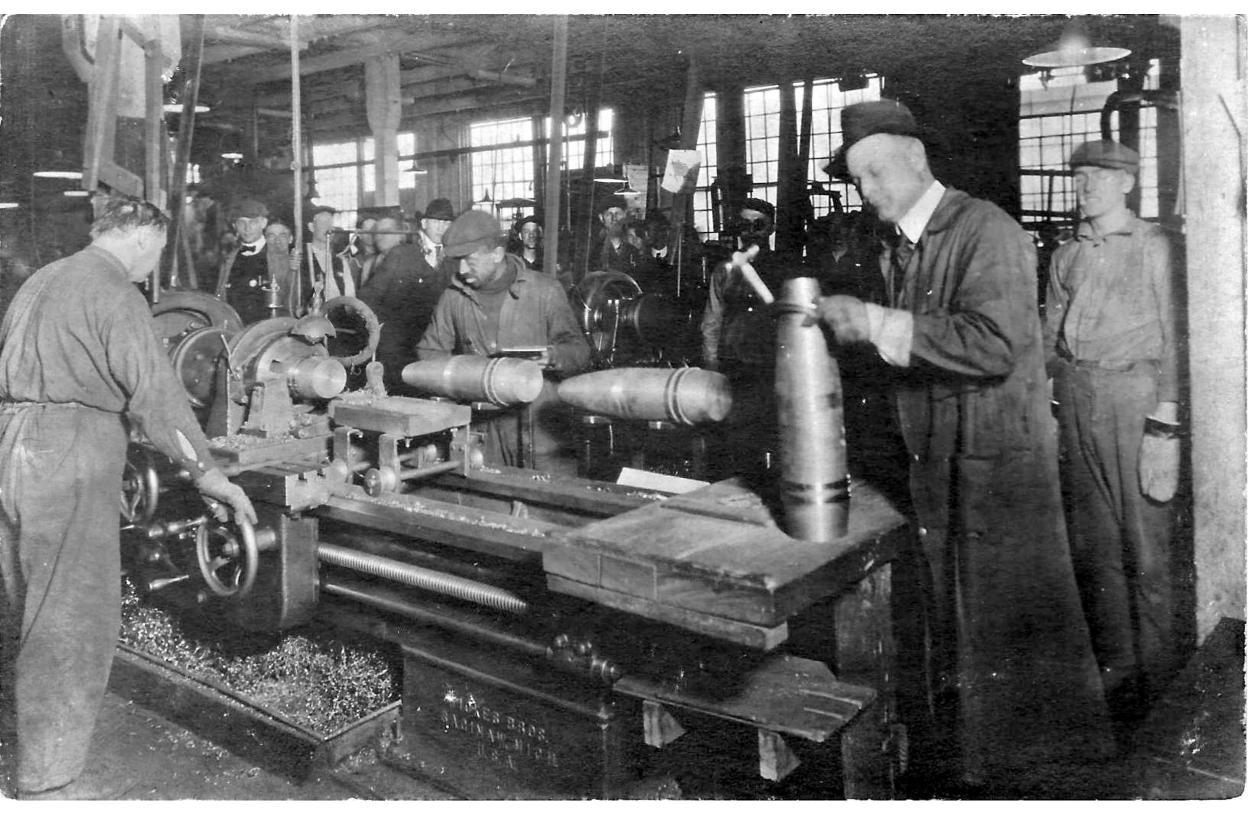
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HERE IS SHOWN THE FINISH TURN OPERATION, WHICH GIVES THE NOSE END THE PROPER PROFILE, & THE CORRECT BIAMETER FOR BODY OF SHELL,



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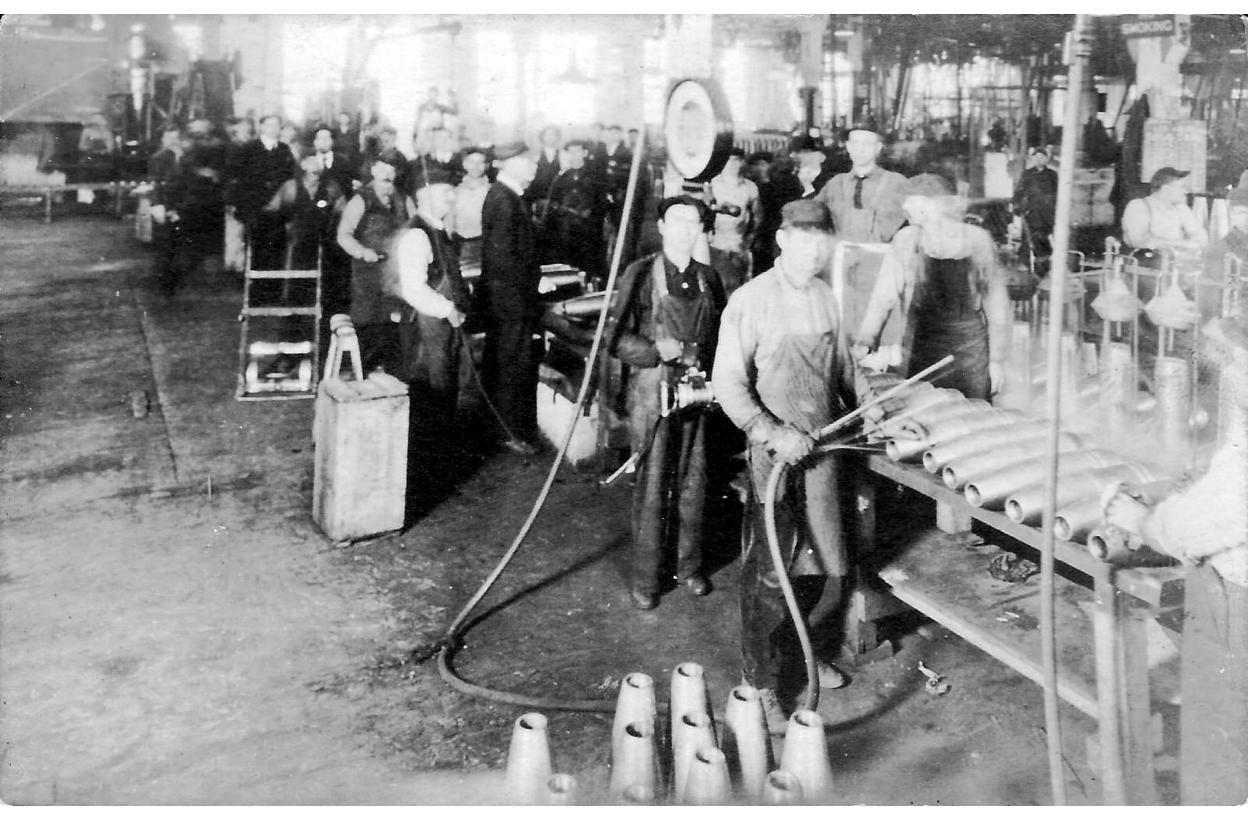
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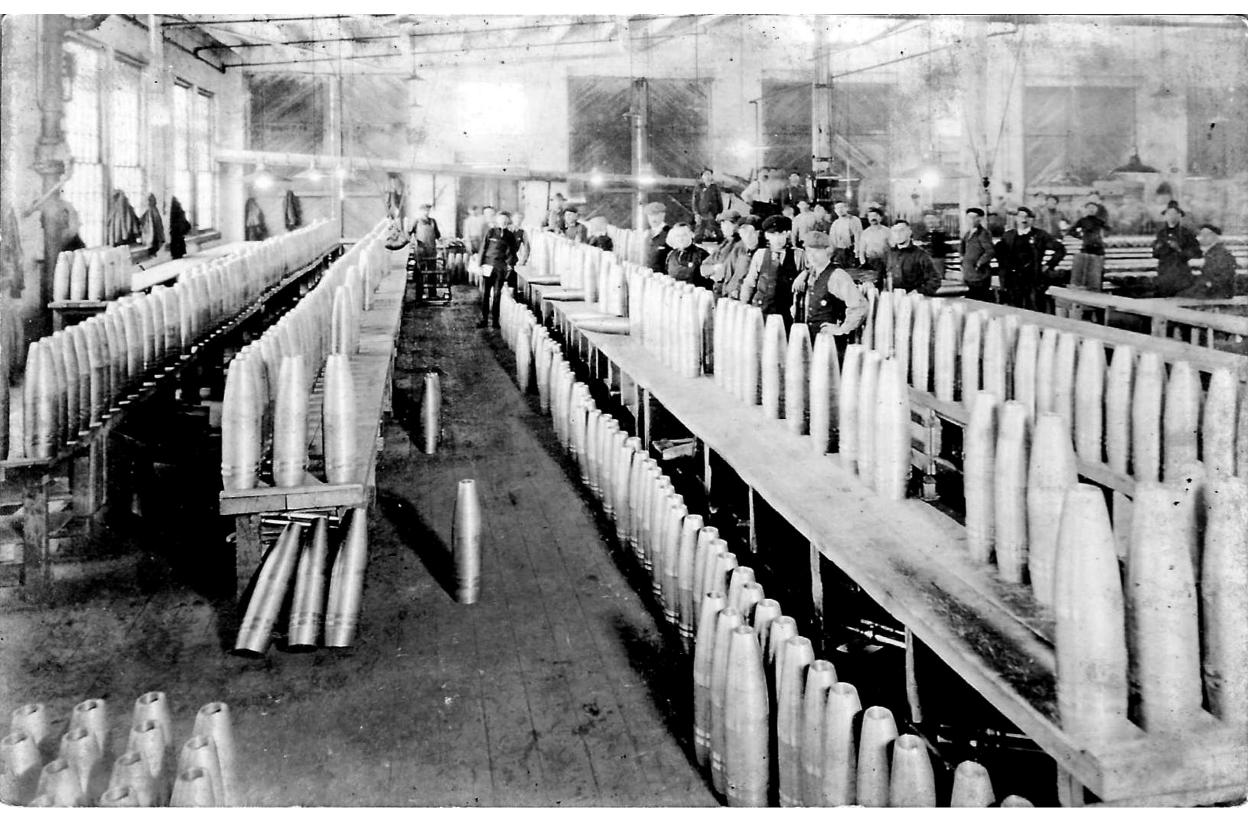
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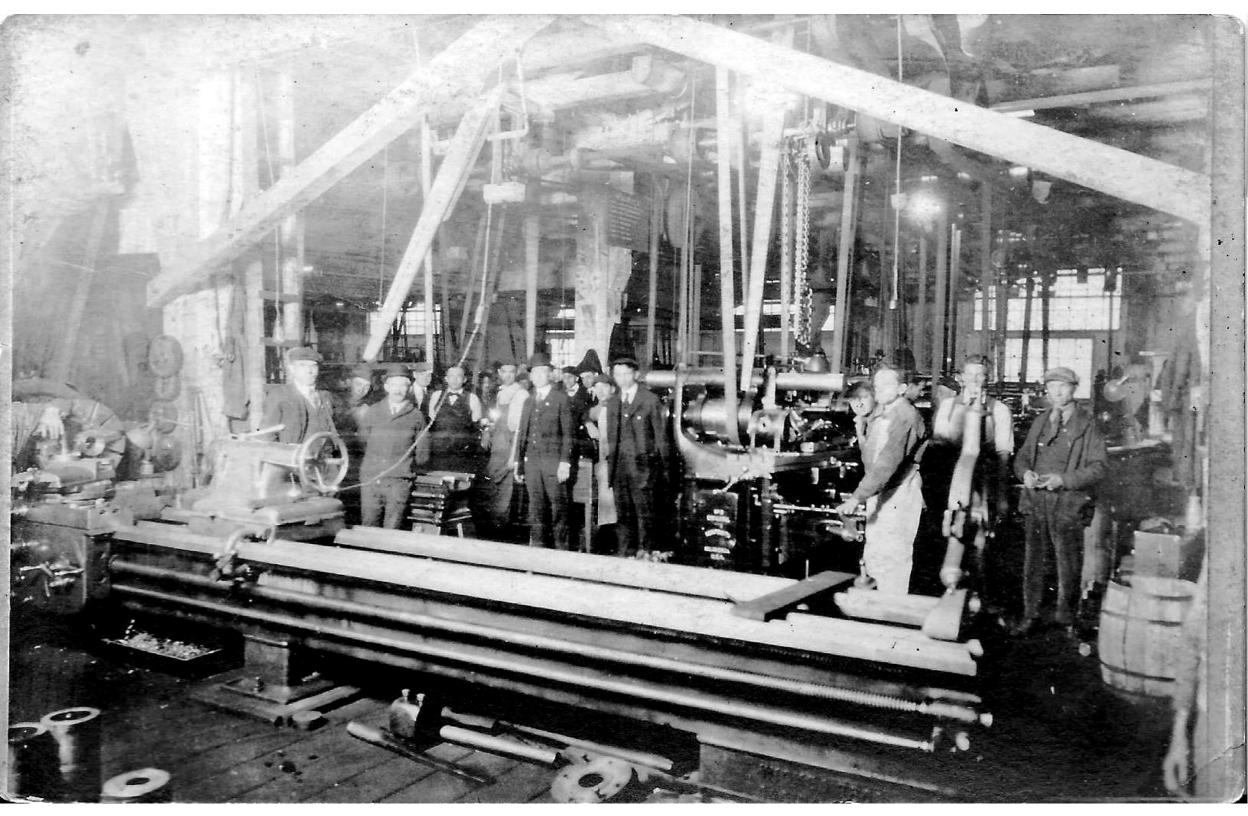
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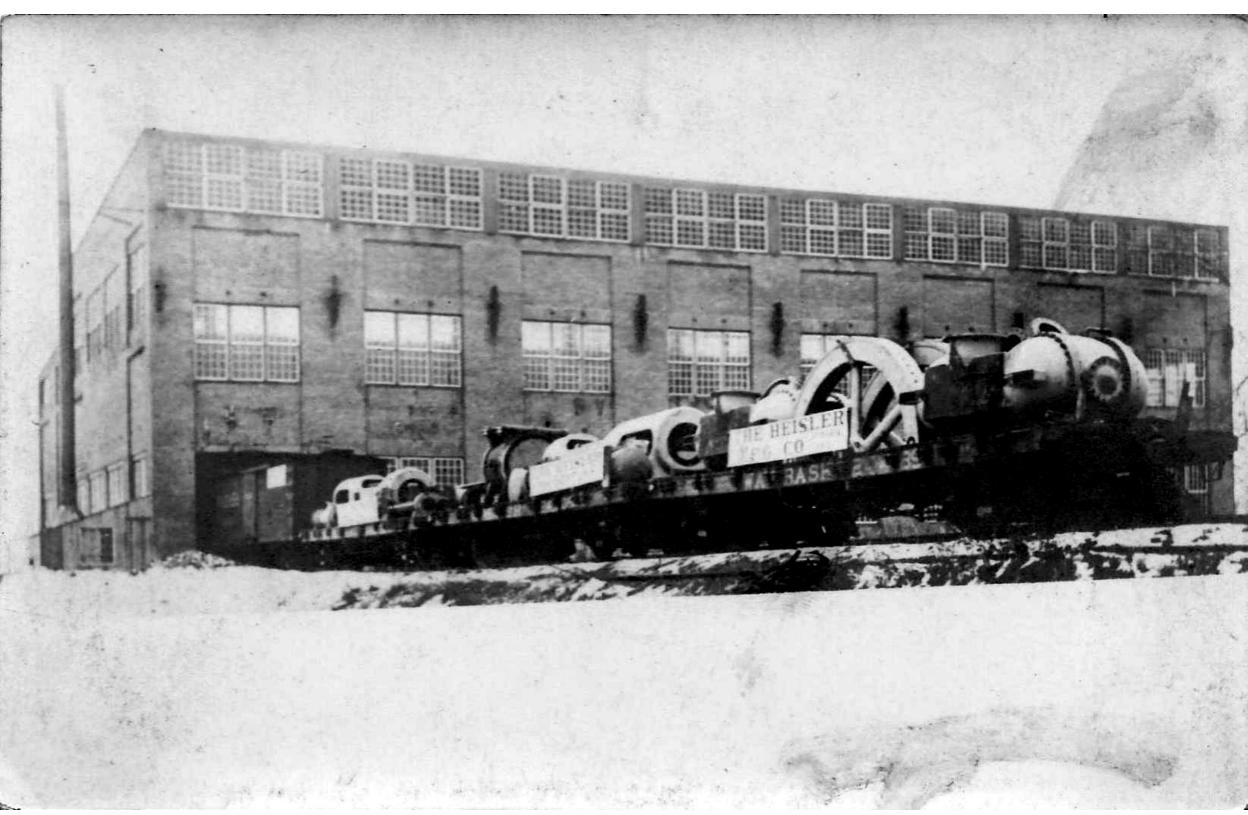
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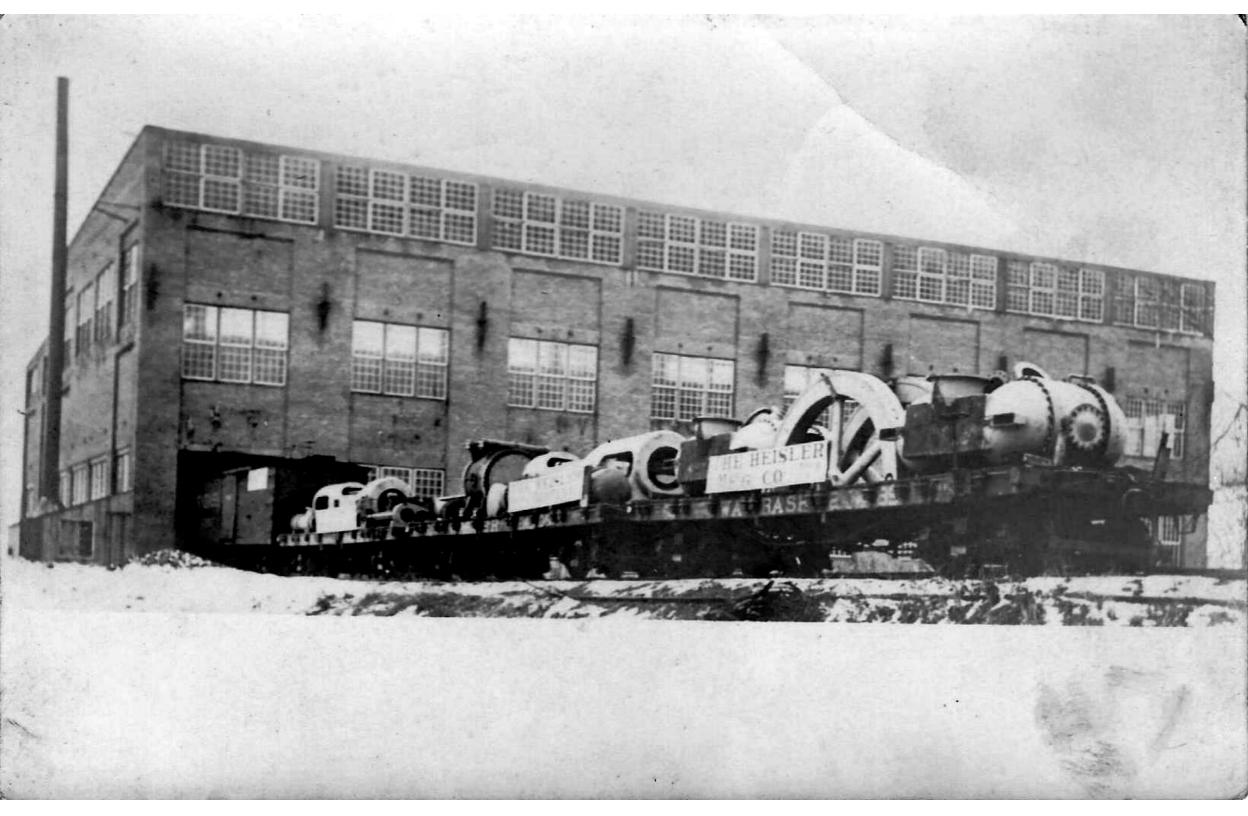


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